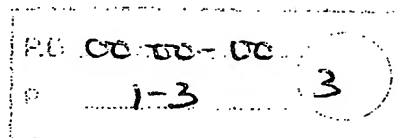


XP-002296657



## Reaction

Reaction ID	2768
Reactant BRN	<u>102378</u> oxirane
Product BRN	<u>505945</u> ethane-1,2-diol
No. of Reaction Details	8

## Reaction Details 1 of 8

Reaction Classification	Preparation
Reagent	water
Temperature	200 C
Pressure	7355.08 - 18387.7 Torr

Note 1	Handbook
Ref. 1	<u>1366368</u> ; Journal; Denner; Ullmann; 3; 1953; 138.
Ref. 2	<u>1144438</u> ; Patent; I.G.Farbenind.; US 1976677; 1929.
Ref. 3	<u>1144439</u> ; Patent; I.G.Farbenind.; FR 697786.
Ref. 4	<u>1144440</u> ; Patent; I.G.Farbenind.; DE 595174; 1929; FTFVA6; Fortschr. Teerfarbenfabr. Verw. Industriezweige; DE; GE; 19; 210.
Ref. 5	<u>1366386</u> ; Book Review / Secondary Ref.; Reppe, W.; Acetylene Chemistry <New York 1949> S.21.
Ref. 6	<u>1366387</u> ; Book Review / Secondary Ref.; Rector; Toussaint in G.O. Curme; F. Johnston; Glycols <New York 1952> S.20.

## Reaction Details 2 of 8

Reaction Classification	Preparation
Reagent	diluted sulfuric acid water

Note 1	Handbook
Ref. 1	<u>1366375</u> ; Journal; Sherwood; Petr. Refiner; 28; 3; 131, 134; Chem. Abstr.; 1949; 6976.
Ref. 2	<u>1366376</u> ; Journal; Matignon; Moureu; Dode; BSCFAS; Bull. Soc. Chim. Fr.; <5>1; 1934; 1316.
Ref. 3	<u>1366377</u> ; Patent; U.S. Ind. Chem. Inc.; US 2409441; 1943.
Ref. 4	<u>1366378</u> ; Patent; U.S. Ind. Alcohol Co.; US 2135271; 1937.
Ref. 5	<u>1366379</u> ; Patent; Standard Alcohol Co.; US 2255411; 1937.

## Reaction Details 3 of 8

Reaction Classification	Preparation
Reagent	trichloroacetic acid water
Temperature	60 C
Other Conditions	neben geringen Mengen Polyäthylenglykolen

Copyright 1988-2001 Beilstein Institut zur Förderung der Chemischen Wissenschaften. All rights reserved.

Note 1  
Ref. 1

Handbook  
1366374; Patent; Solvay & Cie.; US 2472417; 1947.

### **Reaction Details 4 of 8**

Reaction Classification  
Reagent

Preparation  
silver oxide  
fired clay  
water  
170 - 172 C  
in der Dampfphase

Note 1  
Ref. 1

Handbook  
1366372; Journal; Cartmell et al.; IECHAD; Ind.Eng.Chem.;  
40; 1948; 392.

### **Reaction Details 5 of 8**

Reaction Classification  
Reagent

Preparation  
sulfur dioxide  
water

Note 1  
Ref. 1

Handbook  
1423378; Patent; Dow Chem.Co.; US 2807651; 1956.

### **Reaction Details 6 of 8**

Reaction Classification  
Reagent

Preparation  
ions-exchanger/s  
water

Note 1  
Ref. 1

Handbook  
607451; Journal; Othmer; Thakar; IECHAD; Ind.Eng.Chem.;  
50; 1958; 1235.

Ref. 2

607452; Journal; Hamilton; Metzner; IECHAD; Ind.Eng.Chem.  
; 49; 1957; 838.

Ref. 3

1423377; Journal; Reed et al.; IECHAD; Ind.Eng.Chem.; 48;  
1956; 205.

### **Reaction Details 7 of 8**

Reaction Classification  
Reagent

Preparation  
sulfuric acid  
water

Note 1  
Ref. 1

Handbook  
1319973; Patent; Chem.Fabr.Kalk; DE 416604; FTFVA6;  
Fortschr.Teerfarbenfabr.Verw.Industriezweige; DE; GE; 15;  
93.

### **Reaction Details 8 of 8**

Reaction Classification  
Reagent  
Temperature  
Pressure

Preparation  
water  
60 C  
4.41305\*106 Torr

Note 1

Handbook

Ref. 1

1694691; Journal; Starkweather; JACSAT; J.Amer.Chem.Soc.  
; 56; 1934; 1870, 1872.

BEST AVAILABLE COPY

**THIS PAGE BLANK (USPTO)**